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contd*

and not embedded into the substrate 404; and the second circuit line 420 is shown as on the bottom surface 406 of the substrate 404 and not embedded into the substrate 404.

In The Claims

The following claims 1-13 are currently pending.

1. (AMENDED) An electronic structure, comprising:

 a substrate;

 a first circuit line including a first conductive pad and having a first thickness, wherein the first circuit line is coupled to the substrate and is not embedded into the substrate; and

 a second circuit line including a second conductive pad and having a second thickness that is unequal to the first thickness, wherein the second circuit line is coupled to the substrate and is not embedded into the substrate, and wherein the second circuit line is electrically coupled to the first circuit line.

2. The electronic structure of claim 1, wherein the first circuit line is in mechanical contact with the second circuit line.

3. The electronic structure of claim 1, wherein said electrical coupling between the first circuit line and the second circuit line includes a third circuit line coupled to the substrate, wherein the third circuit line has a third thickness that is unequal to both the first thickness and the second thickness, wherein a portion of the third circuit line is electrically coupled to a portion of the first circuit line, and wherein a portion of the third circuit line is electrically coupled to a portion of the

second circuit line.

4. The electronic structure of claim 1, wherein an end of the first circuit line includes the first conductive pad, and wherein an end of the second circuit line includes the second conductive pad.

5. The electronic structure of claim 1, further comprising a protective coating that covers a portion of a circuit line, wherein the circuit line includes the first circuit line and the second circuit line.

6. The electronic structure of claim 1, wherein the first circuit line is mechanically coupled to a first surface of the substrate, and wherein the second circuit line is mechanically coupled to a second surface of the substrate.

7. The electronic structure of claim 6, wherein said electrical coupling of the second circuit line to the first circuit line includes a plated through hole (PTH), wherein a portion of the first circuit line is coupled to a first end of the PTH, and wherein a portion of the second circuit line is coupled to a second end of the PTH.

8. The electronic structure of claim 1, wherein the first circuit line is mechanically coupled to a surface of the substrate, and wherein the second circuit line is mechanically coupled to the surface.

9. The electronic structure of claim 1, further comprising:

a first solder ball coupled to the first conductive pad;
an electronic assembly coupled to the first solder ball;
a second solder ball coupled to the second conductive pad; and
an electronic carrier coupled to the second solder ball.

10. The electronic structure of claim 9, wherein a diameter of the second solder ball is unequal to a diameter of the first solder ball.

11. The electronic structure of claim 1, wherein the first conductive pad includes a metallic layer, and further comprising:

a first metallic coating over the metallic layer; and
a second metallic coating over the first metallic coating, wherein the first metallic coating inhibits diffusion of a metal from the second metallic coating into the metallic layer.

12. The electronic structure of claim 11, further comprising:

a wirebond interconnect coupled to the first conductive pad at the second metallic coating;
an electronic assembly coupled to the wirebond interconnect;
a solder ball coupled to the second conductive pad; and
an electronic carrier coupled to the solder ball.

13. The electronic structure of claim 12, wherein the metallic layer includes copper, wherein the first metallic coating includes nickel, wherein the metal of the second metallic coating is selected